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(54) OPTICAL INFORMATION RECORDING MEDIUM, METHOD FOR REGENERATING IT AND METHOD FOR RECORDING**(57)Abstract:**

PROBLEM TO BE SOLVED: To improve stability of an amorphous mark and to deal with a linear speed of a wide range by forming a phase change type recording layer of a specific composition in an optical information recording medium having at least the phase change type recording layer on a substrate such as a high density optical disk or the like utilizing a rewritable phase change medium.

SOLUTION: A phase change type recording layer of a rewritable disk such as a high density optical disk or the like is formed of a composition represented by the formula $((Sb_xTe_{1-x})_yGe_{1-y})_zM_{1-z}$, wherein x is number of a range of $0.7 \leq x \leq 0.9$, y is number of a range of $0.8 \leq y < 1$, z is number of a range of $0.88 \leq z < 1$, and M is In and/or Ga. In order to record a mark length-modulated information on such an optical information recording medium, a crystal state portion is processed in an unrecorded and erased state, an amorphous portion is processed in a recorded state, and an amorphous portion between recording marks is processed to be irradiated with a recording light of crystallizable erasing power.

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